

Application Serial No. 09/886,169
Response dated: August 27, 2010
Reply to final Office Action dated: May 27, 2010

AMENDMENTS TO THE CLAIMS

Please amend the claims by replacing the original claims with the following listing of claims.

LISTING OF THE CLAIMS:

1. (Currently amended) A method for processing stored and forwarded code comprising: providing a computer with a storage component, transferring code, from [[a]] said storage component, to a transfer component; transferring said code, from said transfer component, to a proscribed code scanner including exchanging information between said transfer component and said proscribed code scanner whereby said transfer component interrogates said proscribed code scanner to obtain processing status information; providing an indicator via said proscribed code scanner and indicating, via said proscribed code scanner returning said indicator to said transfer component, whether said code contains proscribed code; and, without transmitting said code that was transferred to the proscribed code scanner for analysis to said transfer component; and transferring said code to at least one secondary storage component based on said indication;

wherein said transfer component is configured with instructions to implement transfer of code directly to at least one secondary storage component without transferring code to the proscribed code scanner when said transfer component recognizes

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information contained in said code that the transfer component uses to make a decision,

and

wherein the method includes transferring code directly to at least one secondary storage component without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code to correspond with a proscribed code scanner status for that code.

2. (Original) A method as in claim 1 further comprising the step of transferring said code from said at least one secondary storage component to a subsequent code transfer component.

3. (Original) A method as in claim 1 further comprising the step of sorting said code prior to transfer to said at least one secondary storage component.

4. (Previously presented) A method as in claim 3 further comprising the step of transferring code to at least two secondary storage components, with a first of at least two secondary storage components receiving smaller stored and forwarded code and a second of at least two secondary storage components receiving larger stored and forwarded code.

5. (Original) A method as in claim 1 wherein said code comprises email.

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6. (Currently amended) A method for processing stored and forwarded code comprising: providing a computer with a storage component, transferring code, from [[a]] said storage component, to a first transfer component; sorting said code; transferring said code, based on the results of said sort, to at least one first secondary storage component; transferring said code from at least one first secondary storage component to at least one secondary transfer component; transferring said code, from said at least one first secondary transfer component to a proscribed code scanner; indicating, via said proscribed code scanner to said at least one first transfer component, whether said code contains proscribed code, without transmitting said code to said transfer component; and, transferring said code from at least one first secondary transfer component to at least one second secondary storage component based on said indication;

wherein said transfer component is configured with instructions to implement transfer of code directly to at least one secondary storage component without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code that the transfer component uses to make a decision, and

wherein the method includes transferring code directly to at least one secondary storage component without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code to correspond with a proscribed code scanner status for that code.

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7. (Original) A method as in claim 6 further comprising the step of transferring said code from said at least one secondary storage component to a subsequent code transfer component.

8. (Original) A method as in claim 6 wherein the step of sorting said code further comprises sorting the code by size.

9. (Previously presented) A method as in claim 6 wherein said code comprises email.

10. (Currently amended) A method for processing stored and forwarded email, using sendmail, comprising: providing a computer with a storage component, transferring email, from a sendmail queue, to a transfer component; transferring email, from said transfer component, to a proscribed code scanner; indicating, via said proscribed code scanner to said transfer component, whether said email contains proscribed code, without transmitting said code to said transfer component; and, transferring said email to at least one secondary sendmail queue based on said indication;

wherein said transfer component is configured with instructions to implement transfer of code directly to at least one secondary sendmail queue without transferring code to the proscribed code scanner when said transfer component recognizes

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information contained in said code that the transfer component uses to make a decision,

and

wherein the method includes transferring code directly to at least one secondary sendmail queue without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code to correspond with a proscribed code scanner status for that code.

11. (Original) A method as in claim 10 further comprising the step of transferring said email from said at least one secondary sendmail queue to a subsequent sendmail process.

12. (Original) A method as in claim 13 further comprising the step of sorting said email prior to transfer to said at least one secondary sendmail queue.

13. (Previously presented) A method as in claim 10, further comprising the step of sorting said code prior to transfer to said at least one secondary storage component, wherein the step of sorting said email prior to transfer to said at least one secondary sendmail queue component further comprises sorting the email by size.

14. (Currently amended) An computerized apparatus for processing stored and forwarded code comprising: a storage component; a transfer component; a proscribed code scanner; and, a first and a second secondary storage component; wherein code, stored in said storage component, is transferred to said transfer component, and therefrom

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transferred to said proscribed code scanner, which, after scanning said code, indicates to said transfer component as to the presence of proscribed code, without transmitting said code to said transfer component; and said transfer component transfers said code to either said first or second secondary storage component based upon the presence or absence of proscribed code as indicated by said proscribed code scanner;

wherein the apparatus is configured with instructions to implement the transfer of code from the transfer component directly to at least one of said first and second secondary storage components without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code that the transfer component uses to make a decision.

15. (Original) An apparatus as in claim 14 wherein said code comprises email.

16. (Previously presented) An apparatus as in claim 14 wherein said storage component is a sendmail queue.

17. (Previously presented) An apparatus for processing stored and forwarded email, using sendmail, comprising: a sendmail queue; a transfer component; a proscribed code scanner; and, a first and a second secondary storage component; wherein email, stored in said sendmail queue, is transferred to said transfer component, and therefrom transferred to said proscribed code scanner, which, after scanning said email, indicates to said transfer component as to the presence of proscribed code, without transmitting said code

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to said transfer component, and said transfer component transfers said code to either said first or second secondary sendmail queue based upon the presence or absence of proscribed code as indicated by said proscribed code scanner.

18. (Previously presented) An article of manufacture comprising: a computer-readable storage medium; storage means in the medium for storing code; transfer means in the medium for transferring said stored code to a proscribed code scanner; proscribed code scanner means in the medium for scanning said code for proscribed code and indicating to said transfer means whether said code contains proscribed code, without transmitting said code to said transfer component; and, a first and second secondary storage means in the medium for storing said code based upon the presence or absence of proscribed code as indicated by said proscribed code scanner means.

19. (Previously presented) A method for processing stored and forwarded code comprising: transferring code, from a storage component, to a transfer component; transferring said code, from said transfer component, to a proscribed code scanner; indicating, via said proscribed code scanner, whether said code contains proscribed code, without transmitting said code to said transfer component; transferring said code to a subsequent code transfer component based on said indication.

20. (Currently amended) A method for processing stored and forwarded code comprising:

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providing a computer with a storage component;
transferring code, from a storage component, to a first transfer component;
sorting said code;
transferring said code, based on the results of said sort, to at least one first secondary storage component; transferring said code from at least one first secondary storage component to at least one first secondary transfer component;
transferring said code, from said at least one first secondary transfer component to a proscribed code scanner;
indicating, via said proscribed code scanner to said at least one first transfer component, whether said code contains proscribed code, without transmitting said code to said at least one first transfer component, including exchanging information between said transfer component and said proscribed code scanner whereby said transfer component interrogates said proscribed code scanner to obtain processing status information; and,
transferring said code from at least one first secondary transfer component to at least one second secondary storage component based on said indication, wherein at least a plurality of secondary storage components are provided, including at least one secondary storage component comprising a queue for outgoing messages, and wherein at least one other of said queue comprises a queue from which messages are copied by a said transfer component and said copies are transferred to said proscribed code scanner,
wherein said code comprises email, and

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wherein the method includes the step of creating a secondary queue.

21. (Previously presented) The method of claim 9, wherein the method comprises a method for sending mail using a mail transport agent, including creating a secondary queue which comprises a new queue prior to processing by said mail transport agent, and retrieving email code from the second queue prior to further processing by said mail transport agent and delivering prior to further processing by said mail transport agent said retrieved email code to a proscribed code scanner.

22. (Previously presented) The method of claim 21, wherein where scanning of said email code delivered to said proscribed code scanner results in the identification of the presence of proscribed code the email code may remain in the secondary queue or be transferred to a second secondary queue, and wherein when scanning of said email code delivered to said proscribed code scanner does not result in the identification of the presence of proscribed code, the email code is be moved to one or more third secondary queues.

23. (Previously presented) The method of claim 1, wherein at least a plurality of secondary storage components are provided, including at least one secondary storage component comprising a queue for outgoing messages, and wherein at least one other of said queue comprises a queue from which messages are copied by a said transfer component and said copies are transferred to said proscribed code scanner.

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24. (New) The method of claim 1, wherein said code contains header information and wherein when said transfer component transfers code directly to at least one secondary storage component without transferring code to the proscribed code scanner when said transfer component recognizes information contained in said code to correspond with a proscribed code scanner status for that code, said transfer component recognition is based on said header information.